

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: SANKARANARAYANAN

Appl. No.: UNASSIGNED

Filed: HERewith

For: Antennas Supporting High Density of Wireless
Users In Specific Directions

Art Unit: UNASSIGNED

Examiner: UNASSIGNED

Atty. Docket: TI-37177

INFORMATION DISCLOSURE STATEMENT

Honorable Commissioner for Patents
Alexandria, VA 22313-1450

Sir:

Listed below on an attached Form PTO-1449 is information known to applicant(s). A copy of each listed publication and U.S. and foreign patent, except for pending U.S. applications, is being submitted herewith, along with a concise explanation of information in a foreign language, if any, pursuant to 37 C.F.R. §1.97-1.98.

Applicants respectfully request that the listed information be considered by the Examiner and be made of record in the above-identified application. The Examiner is requested to initial and return it in accordance with MPEP §609.

This statement is not intended to represent that the information cited in the statement is, or is considered to be, material to patentability as defined in §1.56. Applicant reserves the right to establish patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may not be prior art, and/or to prove that this information is not enabling for the teachings purportedly offered.

X This statement qualifies under 37 C.F.R. §1.97, subsection (b) because (check all that apply):

- X (1) It is being filed within 3 months of the application filing date; OR
— (2) It is being filed within 3 months of entry of a national stage; OR
X (3) It is being filed before the mail date of the first Office Action on the merits.

— 37 C.F.R. §1.97(c). If this statement is being filed after the latest of: (1) three months beyond the filing date of a national application; (2) three months beyond the date of entry of the national stage as set forth in §1.491 in an international application; or (3) the mailing date of a first Office action on the merits, but before the mailing date of the earlier of a final office action under §1.113 or a notice of allowance under §1.311, then:
— a certification as specified in §1.97(e) is provided below; **or**
— a fee of \$180.00 as set forth in §1.17(p) is authorized below, enclosed, or included with the payment of other papers filed together with this statement.

— 37 C.F.R. §1.97(d). If this statement is being filed after the mailing date of the earlier of a final office action under §1.113 or a notice of allowance under §1.311, but before payment of the issue fee, then:
A. a certification as specified in §1.97(e) is submitted herewith; **and**
B. a petition under 37 C.F.R. §1.97(d) requesting consideration of this statement is submitted herewith; **and**
C. a fee of \$130.00 as set forth in §1.17(i)(1) is authorized below, enclosed, or included with the payment of other papers filed together with this statement.

Respectfully submitted,

Date: January 13, 2004

By: Naren Thappeta
Narendra Reddy Thappeta
Registration Number: 41,416

Law Firm of Naren Thappeta
Phone/Fax: + 1 (707) 356-4172
Email: naren@iphorizons.com
URL: www.iphorizons.com

NRT/jk
D:\MATTERS\TXN\088\IDS TXN-88.WPD

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Substitute for form 1449B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Complete if Known			
		Application Number	UNASSIGNED		
		Filing Date	UNASSIGNED		
		First Named Inventor	Ravishankar SANKARANARAYANAN		
		Group Art Unit	UNASSIGNED		
		Examiner Name	UNASSIGNED		
Sheet	2	of	2	Attorney Docket Number	TI-37177/TXN-088

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		RAVISHANKAR and NARASIMHAN, "Multiple Scattering of EM waves by Dielectric Spheres located in the near field of a source of radiation", IEEE Transactions on Antennas and Propagation, Vol AP35, No 4, pp 399- 405, April 1987.	
		C.A.FERNANDES, "Shaped Dielectric lenses for Wireless Millimeter-Wave Applications", IEEE Antennas & Propagation Magazine, Vol 41, No 5, pp 141-151, Oct 1999.	
		C.A.FERNANDES, JOSE G FERNANDES, "Performance of Lens Antennas in wireless Indoor Millimeter Wave Applications", IEEE Transactions on Microwave Theory and Techniques, Vol 47, No 6, pp 732-737, June 1999.	
		MARIO GMV SILVEIRINHA, C.A.FERNANDES, "Shaped Double-Shell Dielectric Lenses for Wireless millimeter wave applications", IEEE Transactions on Antennas and Propagation Society International Symposium, 2000., Volume: 3, No 16-21, pp 1674-1677, July 2000.	

Examiner Signature		Date Considered	
-----------------------	--	--------------------	--

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Application Number	UNASSIGNED
Filing Date	UNASSIGNED
First Named Inventor	Ravishankar SANKARANARAYANAN
Group Art Unit	UNASSIGNED
Examiner Name	UNASSIGNED
Attorney Docket Number	TI-37177/TXN-088

[illegible][illegible]

Examiner Signature		Date Considered	
-----------------------	--	--------------------	--

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.**